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[続葉有]

(54) Title: RESIN FILM AND METHOD FOR PRODUCTION THEREOF, AND RESIN LAMINATED METAL PLATE USING THE RESIN FILM AND METHOD FOR MANUFACTURE THEREOF

(54) 発明の名称: 樹脂フィルムとその製造方法、及びその樹脂フィルムを使用した樹脂ラミネート金属板とその製
造方法

(57) Abstract: A resin film which comprises a thermoplastic polyester resin and 3 to 30 wt % relative to the total resin of a particulate resin having a particle diameter of 0.1 to 5 μ m, wherein the particulate resin is a modified polyolefin resin containing a functional group derived from a carboxylic acid in an amount of 2 to 20 wt % in terms of the carboxylic acid; a method for producing the resin film; a resin laminated metal plate using the resin film; and a method for manufacturing the resin laminated metal plate. The resin film allows the manufacture of a resin laminated metal plate which is excellent in processability, impact resistance, adhesiveness, flavor characteristics and the suitability to retort treatment.

(57) 要約:

本発明は、粒子径0.1～5 μ mの粒状樹脂が全樹脂中の重量分率で3～30重
量%含有された熱可塑性ポリエステル樹脂からなり、かつ粒状樹脂がカルボン酸か
ら誘導される官能基をカルボン酸換算で2～20重量%含有する変性ポリオレフィ
ン樹脂である樹脂フィルム、その製造方法、及びそれを用いた樹脂ラミネート金属
板、その製造方法に関する。本発明の樹脂フィルムを用いれば、加工性、耐衝撃性、
密着性、フレーバー性、レトルト処理性に優れる樹脂ラミネート金属板が得られる。

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(84) 指定国(広域): ヨーロッパ特許(AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR).

2文字コード及び他の略語については、定期発行される各PCTガゼットの巻頭に掲載されている「コードと略語のガイダンスノート」を参照。

添付公開書類:
— 国際調査報告書

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP02/12222

A. CLASSIFICATION OF SUBJECT MATTER
Int.Cl⁷ C08L67/02, C08J5/18, B32B27/36

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl⁷ C08L67/00-67/02

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Jitsuyo Shinan Koho	1926-2002	Toroku Jitsuyo Shinan Koho	1994-2002
Kokai Jitsuyo Shinan Koho	1971-2002	Jitsuyo Shinan Toroku Koho	1996-2002

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	JP 2001-172481 A (Nippon Steel Corp.), 26 June, 2001 (26.06.01), Column 1, lines 2 to 6; column 32, line 28 to column 51, line 16 (Family: none)	1-49

Further documents are listed in the continuation of Box C. See patent family annex.

• Special categories of cited documents:	
"A" document defining the general state of the art which is not considered to be of particular relevance	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"E" earlier document but published on or after the international filing date	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family
"P" document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search 25 December, 2002 (25.12.02)	Date of mailing of the international search report 21 January, 2003 (21.01.03)
Name and mailing address of the ISA/ Japanese Patent Office	Authorized officer
Facsimile No.	Telephone No.

PATENT COOPERATION TREATY

From the INTERNATIONAL BUREAU

PCT

NOTICE INFORMING THE APPLICANT OF THE COMMUNICATION OF THE INTERNATIONAL APPLICATION TO THE DESIGNATED OFFICES

(PCT Rule 47.1(c), first sentence)

To:

NAKAHAMA, Yasumitsu
 c/o Intellectual Property Dept.
 NKK Corporation
 1-1, Minamiwatarida-cho
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Date of mailing(day/month/year)
 05 June 2003 (05.06.03)

Applicant's or agent's file reference
 P02024PCT

IMPORTANT NOTICE

International application No.
 PCT/JP02/12222

International filing date(day/month/year)
 22 November 2002 (22.11.02)

Priority date(day/month/year)
 27 November 2001 (27.11.01)

Applicant

NKK CORPORATION

1. Notice is hereby given that the International Bureau has **communicated**, as provided in Article 20, the international application to the following designated Offices on the date indicated above as the date of mailing of this notice:

US

In accordance with Rule 47.1(c), third sentence, those Offices will accept the present notice as conclusive evidence that the communication of the international application has duly taken place on the date of mailing indicated above and no copy of the international application is required to be furnished by the applicant to the designated Office(s).

2. The following designated Offices have waived the requirement for such a communication at this time:

CA, EP

The communication will be made to those Offices only upon their request. Furthermore, those Offices do not require the applicant to furnish a copy of the international application (Rule 49.1(a-bis)).

3. Enclosed with this notice is a copy of the international application as published by the International Bureau on
 05 June 2003 (05.06.03) under No. 03/046077

4. TIME LIMITS for filing a demand for international preliminary examination and for entry into the national phase

The applicable time limit for entering the national phase will, subject to what is said in the following paragraph, be **30 MONTHS** from the priority date, not only in respect of any elected Office if a demand for international preliminary examination is filed before the expiration of **19 months** from the priority date, but also in respect of any designated Office, in the absence of filing of such demand, where Article 22(1) as modified with effect from 1 April 2002 applies in respect of that designated Office. For further details, see *PCT Gazette* No. 44/2001 of 1 November 2001, pages 19926, 19932 and 19934, as well as the *PCT Newsletter*, October and November 2001 and February 2002 issues.

In practice, **time limits other than the 30-month time limit** will continue to apply, for various periods of time, in respect of certain designated or elected Offices. For **regular updates on the applicable time limits** (20, 21, 30 or 31 months, or other time limit), Office by Office, refer to the *PCT Gazette*, the *PCT Newsletter* and the *PCT Applicant's Guide*, Volume II, National Chapters, all available from WIPO's Internet site, at <http://www.wipo.int/pct/en/index.html>.

For filing a **demand for international preliminary examination**, see the *PCT Applicant's Guide*, Volume I/A, Chapter IX. Only an applicant who is a national or resident of a PCT Contracting State which is bound by Chapter II has the right to file a demand for international preliminary examination (at present, all PCT Contracting States are bound by Chapter II).

It is the applicant's **sole responsibility** to monitor all these time limits.

The International Bureau of WIPO
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